

DEPARTMENT OF THE INTERIOR**Fish and Wildlife Service****Endangered and Threatened Species Permit Applications**

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of receipt of applications.

The following applicants have applied for permits to conduct certain activities with endangered species. This notice is provided pursuant to section 10(c) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531, *et seq.*).

PRT-842309

Applicant: Mark F. O'Brien, University of Michigan, Museum of Zoology, Ann Arbor, Michigan.

The applicant requests a permit to take (capture and release, collect voucher specimens, collect larval exuviae, and salvage dead specimens) Hine's (=Ohio) emerald dragonfly (*Somatochlora hineana*) in the state of Michigan. Activities are proposed to document presence or absence of the species for the purpose of survival and enhancement of the species in the wild.

PRT-842310

Applicant: QST Environmental, St. Louis, Missouri.

The applicant requests a permit to take (capture, handle, and release) Curtis' pearlymussel [*Epioblasma* (=Dysnomia) *florentina curtisi*], fat pocketbook [*Potamilus* (=Proptera) *capax*], Higgins' eye pearlymussel [*Lampsilis higginsii*], and pink mucket pearlymussel [*Lampsilis abrupta* (=orbiculata)] in the states of Illinois and Missouri. Activities are proposed to document presence or absence of the species for the purpose of survival and enhancement of the species in the wild.

PRT-842312

Applicant: Mark D. McGimsey, Columbia, Missouri.

The applicant requests a permit to take (capture and release) gray bat (*Myotis grisescens*) and Indiana bat (*Myotis sodalis*) throughout the ranges of the species. Activities are proposed to document presence or absence of the species for the purpose of survival and enhancement of the species in the wild.

PRT-842313

Applicant: Illinois Department of Natural Resources, Illinois State Museum Research and Collections Center, Springfield, Illinois.

The applicant requests a permit to take (capture and release, collect) Hine's (=Ohio) emerald dragonfly

(*Somatochlora hineana*) in the states of Alabama, Arkansas, Connecticut, Delaware, District of Columbia, Georgia, Illinois, Indiana, Iowa, Kentucky, Maine, Maryland, Massachusetts, Michigan, Minnesota, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin. Activities are proposed to document presence or absence of the species and for the purpose of scientific research aimed at enhancement and survival of the species in the wild.

PRT-842314

Applicant: Mark A. Sellers, Kentwood, Michigan.

The applicant requests a permit to take (harass through survey; capture, and release) copperbelly water snake (*Nerodia erythrogaster neglecta*) in the state of Michigan. Activities are proposed to document presence or absence of the species for the purpose of survival and enhancement of the species in the wild.

PRT-842392

Applicant: Richard French-Constant, University of Wisconsin-Madison, Department of Entomology, Madison, Wisconsin.

The applicant requests a permit to take (collect) Karner blue butterfly (*Lycaeides melissa samuelis*) in the states of Indiana and New York. Activities are proposed for the purpose of scientific research aimed at enhancement and survival of the species in the wild.

PRT-842503

Applicant: Robert Mies and Kimberly Williams, Organization for Bat Conservation, Williamston, Michigan.

The applicants request a permit to take (capture and release) Indiana bats (*Myotis sodalis*) in the state of Michigan. Activities are proposed to document presence or absence of the species for the purpose of survival and enhancement of the species in the wild.

Written data or comments should be submitted to the Regional Director, U.S. Fish and Wildlife Service, Ecological Services Operations, 1 Federal Drive, Fort Snelling, Minnesota 55111-4056, and must be received within 30 days of the date of this publication.

Documents and other information submitted with these applications are available for review by any party who submits a written request for a copy of such documents to the following office within 30 days of the date of publication of this notice: U.S. Fish and Wildlife Service, Ecological Services Operations,

1 Federal Drive, Fort Snelling, Minnesota 55111-4056. Telephone: (612/713-5332); FAX: (612/713-5292).

Dated: May 4, 1998.

Matthias A. Kerschbaum,

Acting Assistant Regional Director, IL, IN, MO (Ecological Services), Region 3, Fort Snelling, Minnesota.

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DEPARTMENT OF THE INTERIOR**Fish and Wildlife Service****Endangered Species Permit Applications**

AGENCY: Fish and Wildlife Service, Interior.

ACTION: Notice of receipt of permit applications.

SUMMARY: The following applicants have applied for a scientific research permit to conduct certain activities with endangered species pursuant to section 10(a)(1)(A) of the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Permit No. 835549

Applicant: Charles Black, San Diego, California.

The applicant requests a permit to take (harass by survey, capture and release) the San Diego fairy shrimp (*Brachinecta sandiegonensis*) and the Riverside fairy shrimp (*Streptocephalus woottoni*), and remove and reduce to possession the San Diego mesa mint (*Pogogyne abramsii*) and the San Diego button celery (*Eryngium aristulatum* ssp. *pavishii*) for the purpose of enhancing their survival, in conjunction with research in vernal pools throughout the state of California.

Permit No. 830995

Applicant: Lisa B. Chaddock, San Diego, California.

The applicant requests a permit amendment to take (harass by survey) the Quino checkerspot butterfly (*Euphydryas editha quino*) in conjunction with presence or absence surveys and ecological research throughout the species' range, for the purpose of enhancing its survival.

Permit No. 838741

Applicant: Larry Munsey, Tustin, California.

The applicant requests a permit amendment to take (harass by survey) the Delhi sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*) in conjunction with presence or absence surveys in San Bernardino and